Title (en)

DIESEL ENGINE CYLINDER DEACTIVATION MODES

Title (de)

ZYLINDERDEAKTIVIERUNGSMODI EINES DIESELMOTORS

Title (fr)

MODES DE DÉSACTIVATION DE CYLINDRES DE MOTEUR DIESEL

Publication

EP 3894682 A1 20211020 (EN)

Application

EP 19828560 A 20191213

Priority

- US 201862779554 P 20181214
- EP 2019025458 W 20191213

Abstract (en)

[origin: WO2020119951A1] When selecting cylinders of a multi-cylinder diesel engine in an engine system for cylinder deactivation (CDA), a method can comprise designating a first resonance around a first periodic frequency output of the engine system as a primary boundary and designating a second resonance around a second periodic frequency output of the engine system as a secondary boundary. Selecting cylinders can comprise selecting one of half, one third, or two thirds of the multiple cylinders for CDA while firing the remaining multiple cylinders. The selection can be made so that the periodic frequency output of the engine is between the primary and secondary boundaries. A compact periodic frequency band can be implemented to further restrict the selection of cylinders for CDA. The first periodic frequency output can be about 15 Hertz +/- 1.5 Hertz and the second periodic frequency output can be between 30-40 Hertz +/- 1.5 Hertz.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2020119951A1

Designated contracting state (EPC)

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